

Ln 10/645,248

CLAIMS

- 5 1. A hard surface treatment composition which comprising:
an alcohol constituent selected from the group consisting of methanol, ethanol, n-
propanol, isopropanol, n-butanol, benzyl alcohol, and mixtures thereof which is present in an
amount of from about 40 and 70 weight percent;
an effective amount of a pH adjusting agent such that the pH range of the
10 composition is from about 7.0 to about 13.0;
optionally, one or more constituents selected from the group consisting of
antimicrobials, corrosion inhibitors, perfumes, perfume carriers, deodorants, organic solvents,
surfactants, propellants, pH buffers, organic acids, fungicides, film-forming polymers, and
anti-oxidants;
15 and water, to 100 weight percent
characterized in that the hard surface treatment composition exhibits antimicrobial efficacy
against one or more of: *Salmonella choleraesuis*, *Staphylococcus aureus*, *Escherichia coli*,
Pseudomonas aeruginosa, *Enterococcus hirae*, *Aspergillus niger*, *T. mentagrophytes*,
Hepatitis A, Poliovirus Type 1, Coxsachievirus, Rotavirus, or Rhinovirus.
20
2. A hard surface treatment compositions according to claim 1 which necessarily
comprises a propellant.
3. A hard surface treatment composition according to claim 1 which necessarily
25 comprises an antimicrobial constituent.
4. A hard surface treatment composition according to claim 2 which necessarily
comprises an antimicrobial constituent.
- 30 5. A hard surface treatment composition according to claim 3 wherein the antimicrobial
constituent is quaternary ammonium compound having antimicrobial properties or salt form
thereof.
- 35 6. A hard surface treatment composition according to claim 5 wherein the antimicrobial
constituent is a non-chloride ion containing quaternary ammonium antimicrobial having
antimicrobial properties.

- ⁷
~~6.~~ A hard surface treatment composition according to claim 4 wherein the antimicrobial constituent is quaternary ammonium compound having antimicrobial properties or salt form thereof.
- 5 ⁸
~~7.~~ A hard surface treatment composition according to claim ⁷~~6~~ wherein the antimicrobial constituent is a non-chloride ion containing quaternary ammonium antimicrobial having antimicrobial properties.
- 10 ⁹
~~8.~~ A process for providing a disinfecting treatment of hard surfaces wherein the presence of one or more undesired microorganisms selected from , is suspected, which process contemplates the step of applying an antimicrobially effective amount of a hard surface treatment composition according to claim 1 to the hard surfaces where the presence of undesired microorganisms selected from one or more of: *Salmonella choleraesuis*,
- 15 *Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterococcus hirae* , *Aspergillus niger*, *T. mentagrophytes*, Hepatitis A , Poliovirus Type 1, Coxsachievirus , Rotavirus, or Rhinovirus is suspected.
- ¹⁰
~~9.~~ A process for providing a disinfecting treatment of hard surfaces wherein the
- 20 presence of one or more undesired microorganisms selected from , is suspected, which process contemplates the step of applying an antimicrobially effective amount of a hard surface treatment composition according to claim 2 to the hard surfaces where the presence of undesired microorganisms selected from one or more of: *Salmonella choleraesuis*,
- Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Enterococcus hirae* ,
- 25 *Aspergillus niger*, *T. mentagrophytes*, Hepatitis A , Poliovirus Type 1, Coxsachievirus , Rotavirus, or Rhinovirus is suspected.
- ¹¹
~~10.~~ A method for treating ambient air which method includes the step of dispensing an effective amount of a hard surface composition according to claim 1 in an amount effective to
- 30 exhibit antimicrobial efficacy against gram positive type pathogenic bacteria and/or gram negative type bacteria.
- ¹²
~~11.~~ A method for treating ambient air which method includes the step of dispensing an effective amount of a hard surface composition according to claim 2 in an amount effective to
- 35 exhibit antimicrobial efficacy against gram positive type pathogenic bacteria and/or gram negative type bacteria.

- ¹³
~~12.~~ The composition according to claim 1 wherein the amount of alcohol is from about 50 to about 70 weight percent.
- 5 ¹⁴
~~13.~~ The composition according to claim ¹³~~12~~ wherein the amount of alcohol is from about 50 to about 60 weight percent.
- ¹⁵
~~14.~~ The composition according to claim 1 wherein the pH of the composition is from about 9 to about 12.
- 10 ¹⁶
~~15.~~ The composition according to claim 1 the alcohol is selected from ethanol, isopropanol, and mixtures thereof.
- ¹⁷
15 ~~16.~~ The composition according to claim ¹⁶~~15~~ wherein the alcohol is ethanol.
- ¹⁸
~~17.~~ The composition according to claim 2 wherein the amount of alcohol is from about 50 to about 70 weight percent.
- ¹⁹
20 ~~18.~~ The composition according to claim ¹⁸~~17~~ wherein the amount of alcohol is from about 50 to about 60 weight percent.
- ²⁰
~~19.~~ The composition according to claim 2 wherein the pH of the composition is from about 9 to about 12.
- 25 ²¹
~~20.~~ The composition according to claim 2 the alcohol is selected from ethanol, isopropanol, and mixtures thereof.
- ²²
~~21.~~ The composition according to claim ²¹~~20~~ wherein the alcohol is ethanol.